

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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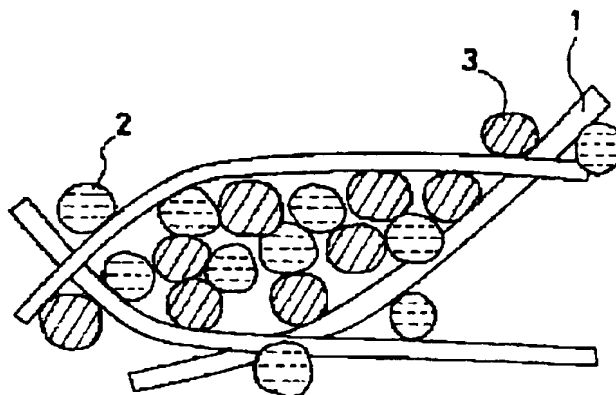
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TITLE : WATER PURIFYING FILTER AND  
WATER PURIFIER



ABSTRACT : PURPOSE: To suppress clogging of an active carbon layer and hollow yarn filter membrane and to realize a longer life by providing the filter with a metal ion removing layer contg. ceramic fibers deposited with at least one kind selected from a group consisting of calcium carbonate and magnesium carbonate.

CONSTITUTION: This water purifying filter used for home or business is formed by mixing alumina silica fibers (about 1 to 10mm length) 1, the calcium carbonate (about 3 $\mu$ m grain size) and the magnesium carbonate (about 3 $\mu$ m grain size) 2 and manganese dioxide (about 3 $\mu$ m grain size) at 3:1.5:0.5:1 ratios by weight and dispersing the mixture into water. For example, starch is added as a binder to this mixture and aluminum chloride hexa hydride is added to the mixture after stirring; thereafter, the mixture is flocculated. The flocs formed in such a manner are sheeted, by which the filter (paper filter) is produced. This filter is cut out to a circular shape and several sheets of such filters are packed into a cartridge for water filtration. Heavy metal ions are effectively adsorbed away when city water, etc., are passed through such cartridge.

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